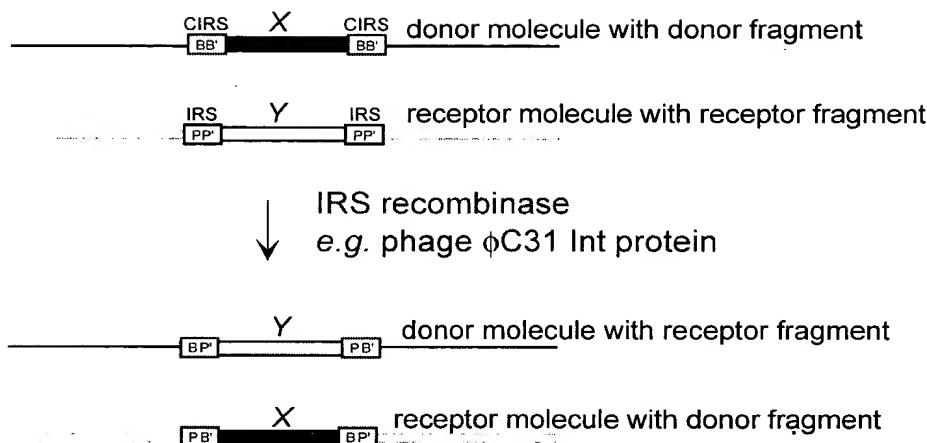
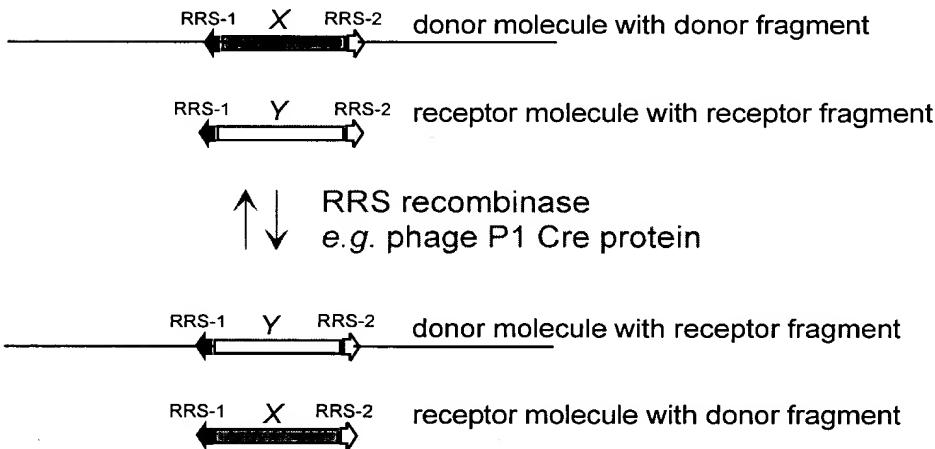


Figure 1

A



B



<b>[PP']</b>	= <i>attP</i>
<b>[BB']</b>	= <i>attB</i>
<b>[PB']</b>	= <i>attR</i>
<b>[BP']</b>	= <i>attL</i>
◀	= <i>loxP</i>
◀	= <i>lox511</i>

Figure 2

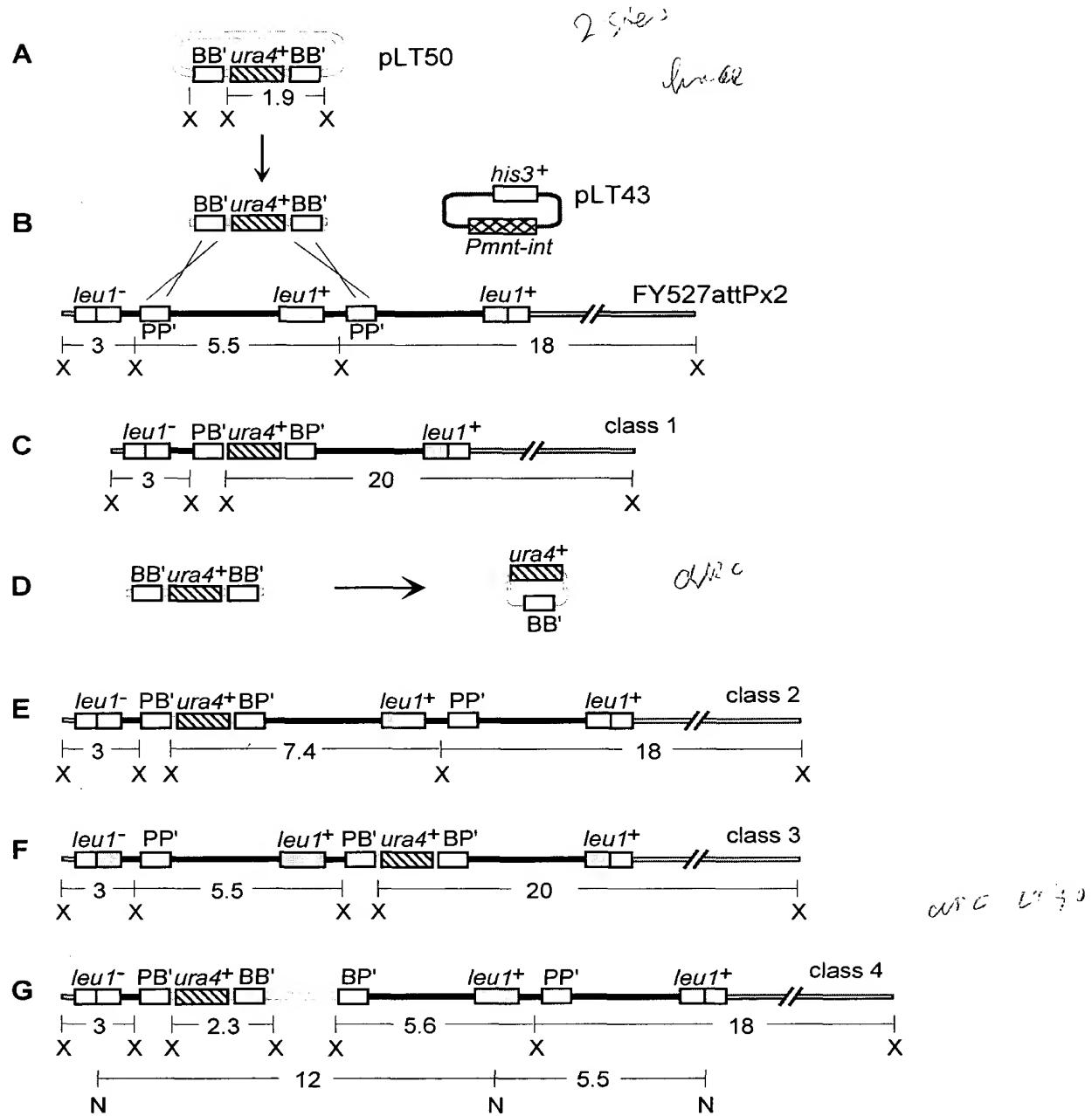
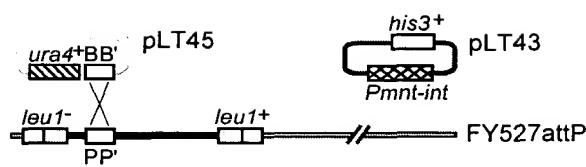
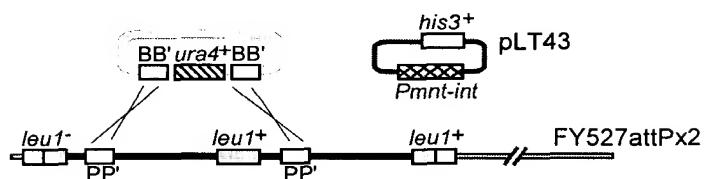


Figure 3

A



B



C

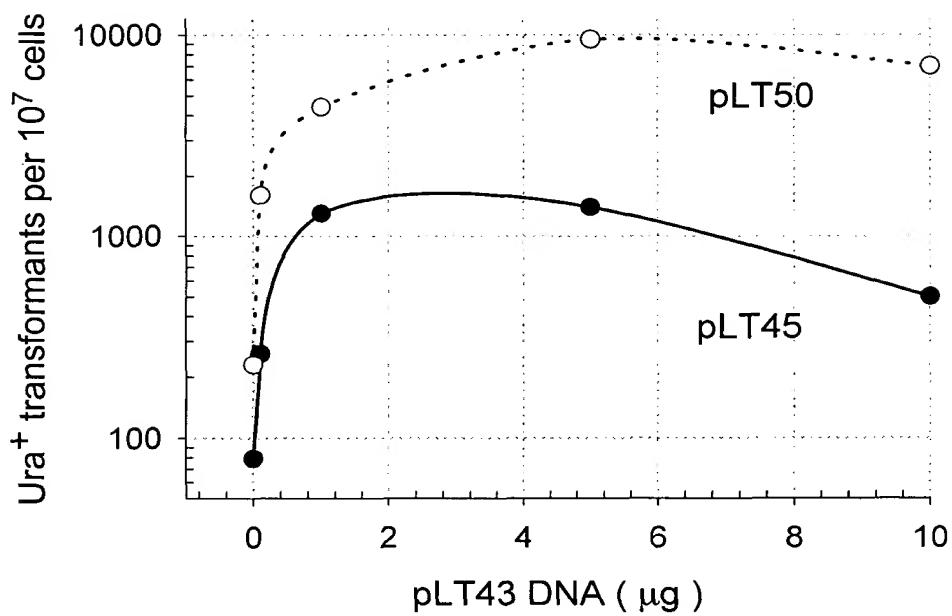


Figure 4

cDNA integration in mammalian cells  
transient expression of *int*

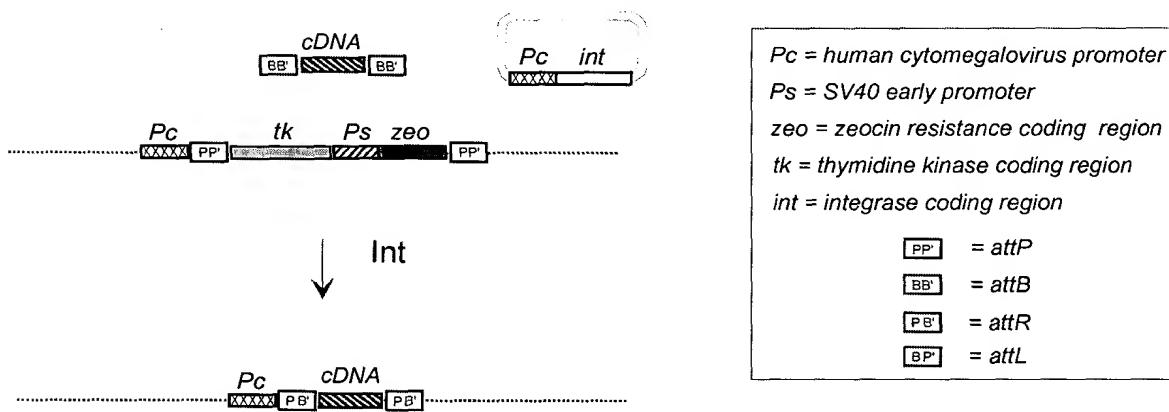
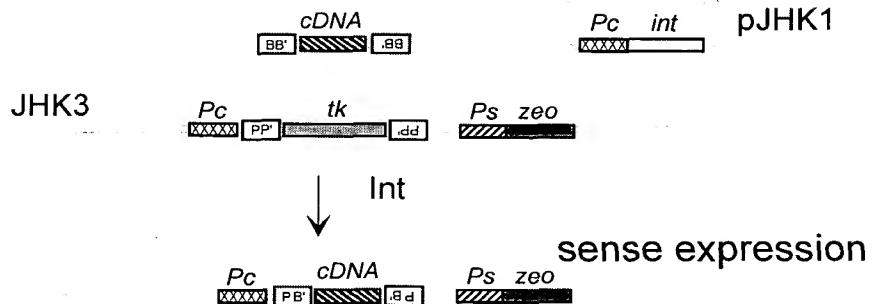


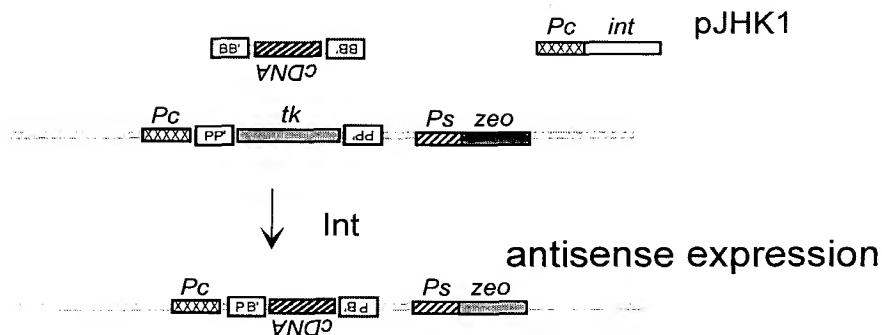
Figure 5, part I

Strategy for cDNA integration in mammalian cells

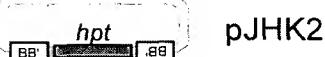
A



B



C



D

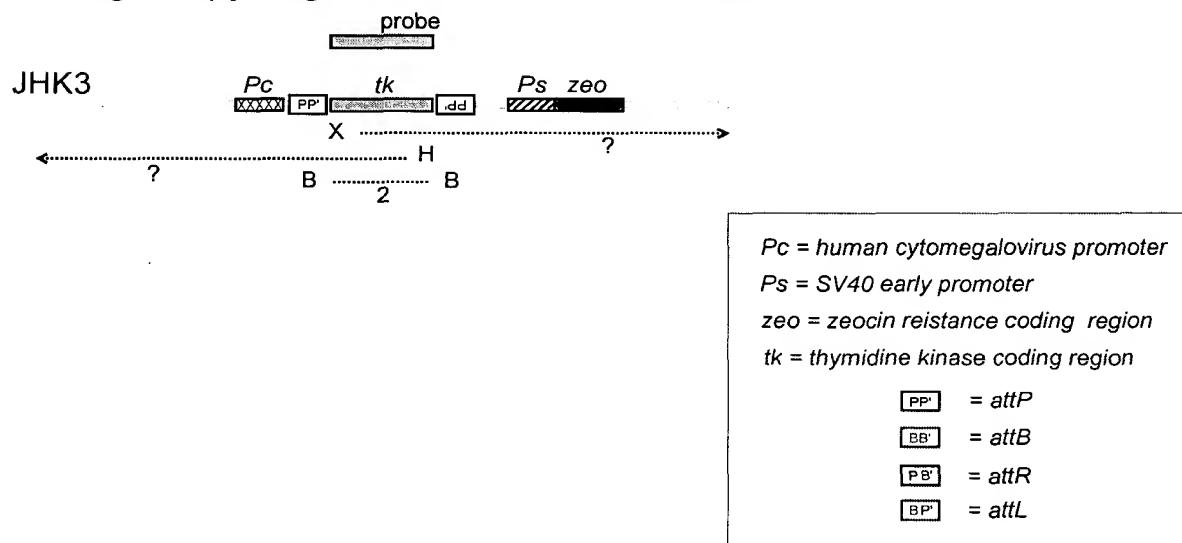


*Pc* = human cytomegalovirus promoter  
*Ps* = SV40 early promoter  
*zeo* = zeocin resistance coding region  
*tk* = thymidine kinase coding region

- [PP] = *attP*
- [BB] = *attB*
- [PB] = *attR*
- [BP] = *attL*

Figure 5, part II

**E Single copy target construct in human cells**



**F PCR detection of DNA exchange**

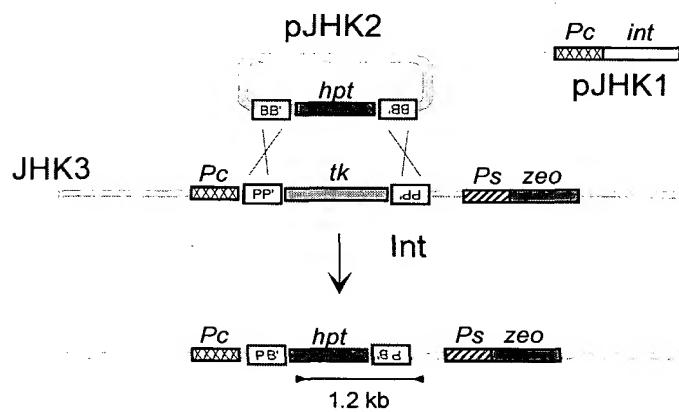
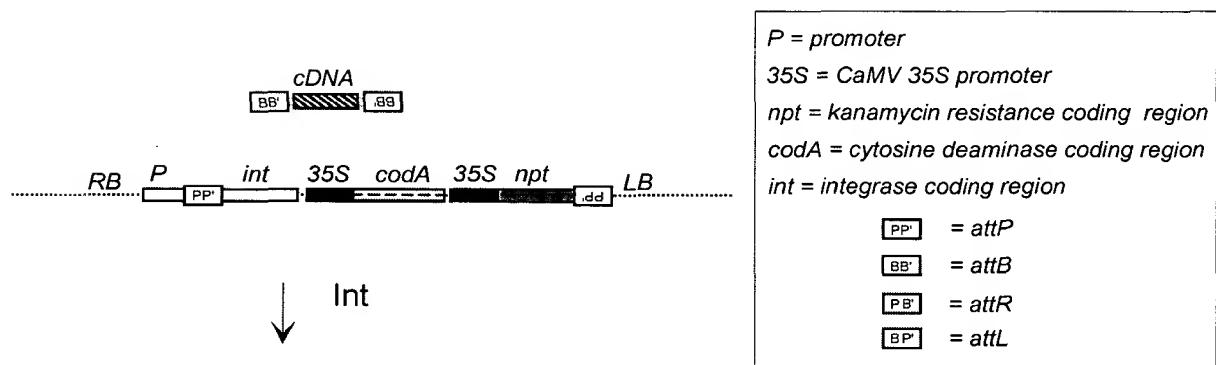


Figure 6

cDNA integration in plant cells  
*int* expressed from target site

A



B

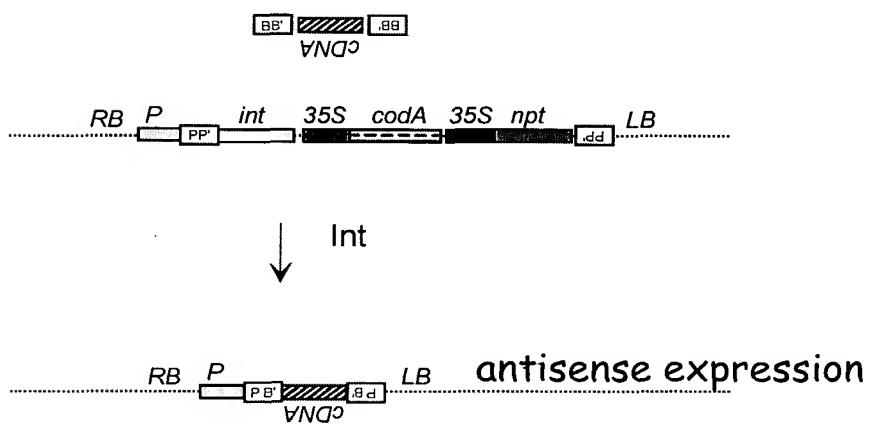


Figure 7

General strategy to incorporate only the trait gene

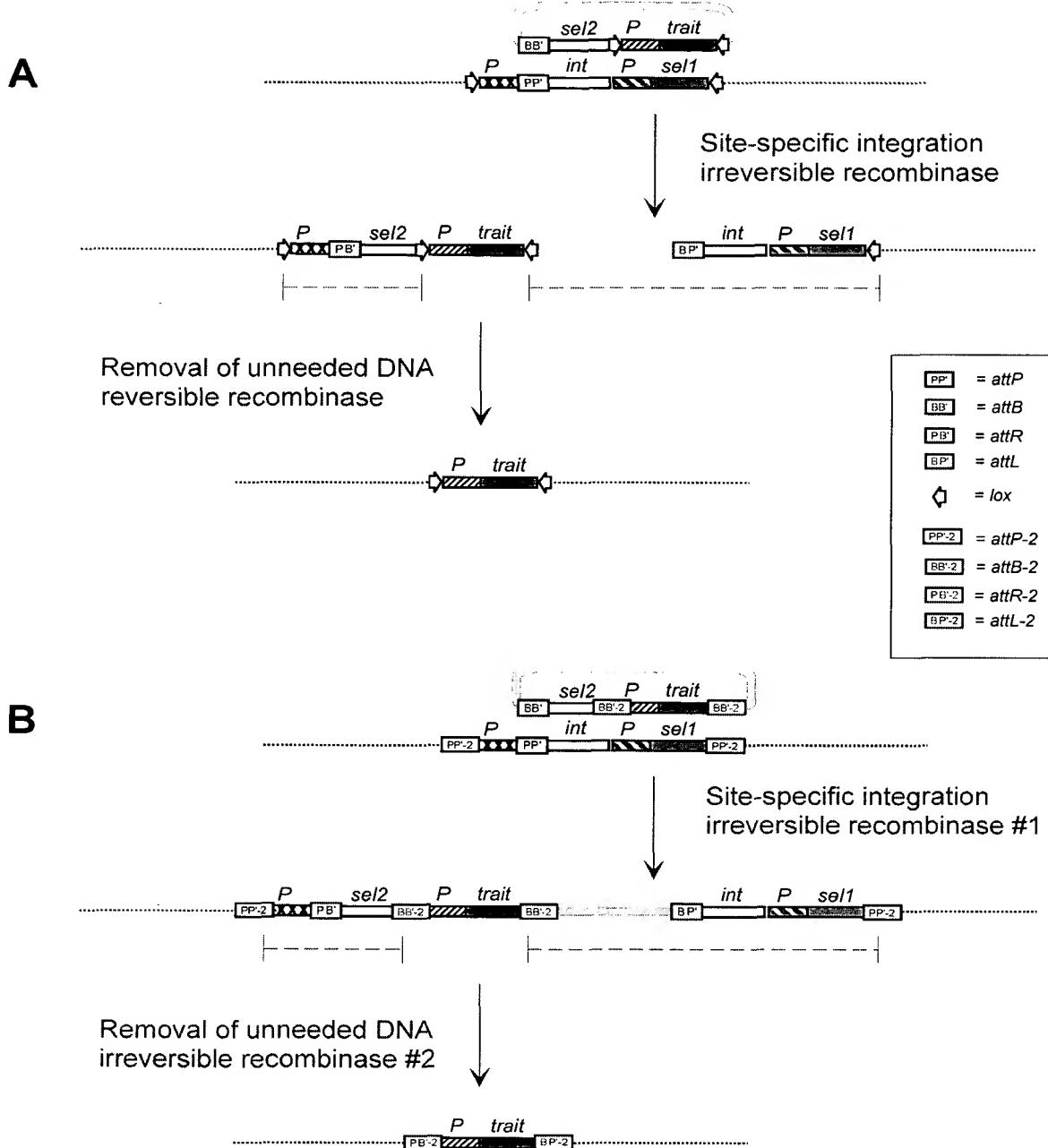
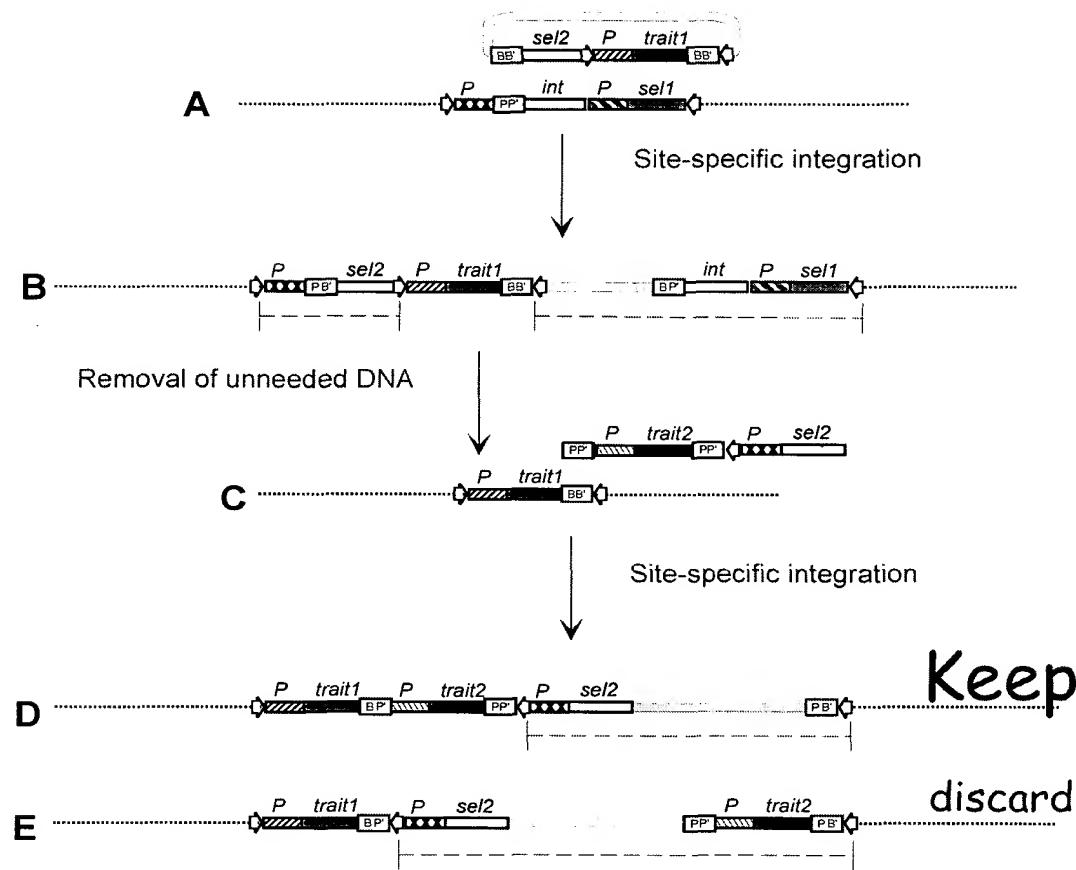


Figure 8, part I

General strategy to stack genes, part1

Use of directly oriented sites



	= <i>attP</i>
	= <i>attB</i>
	= <i>attR</i>
	= <i>attL</i>
	= <i>lox</i>

General strategy to stack genes, part2  
Use of directly oriented sites

Figure 8, part II

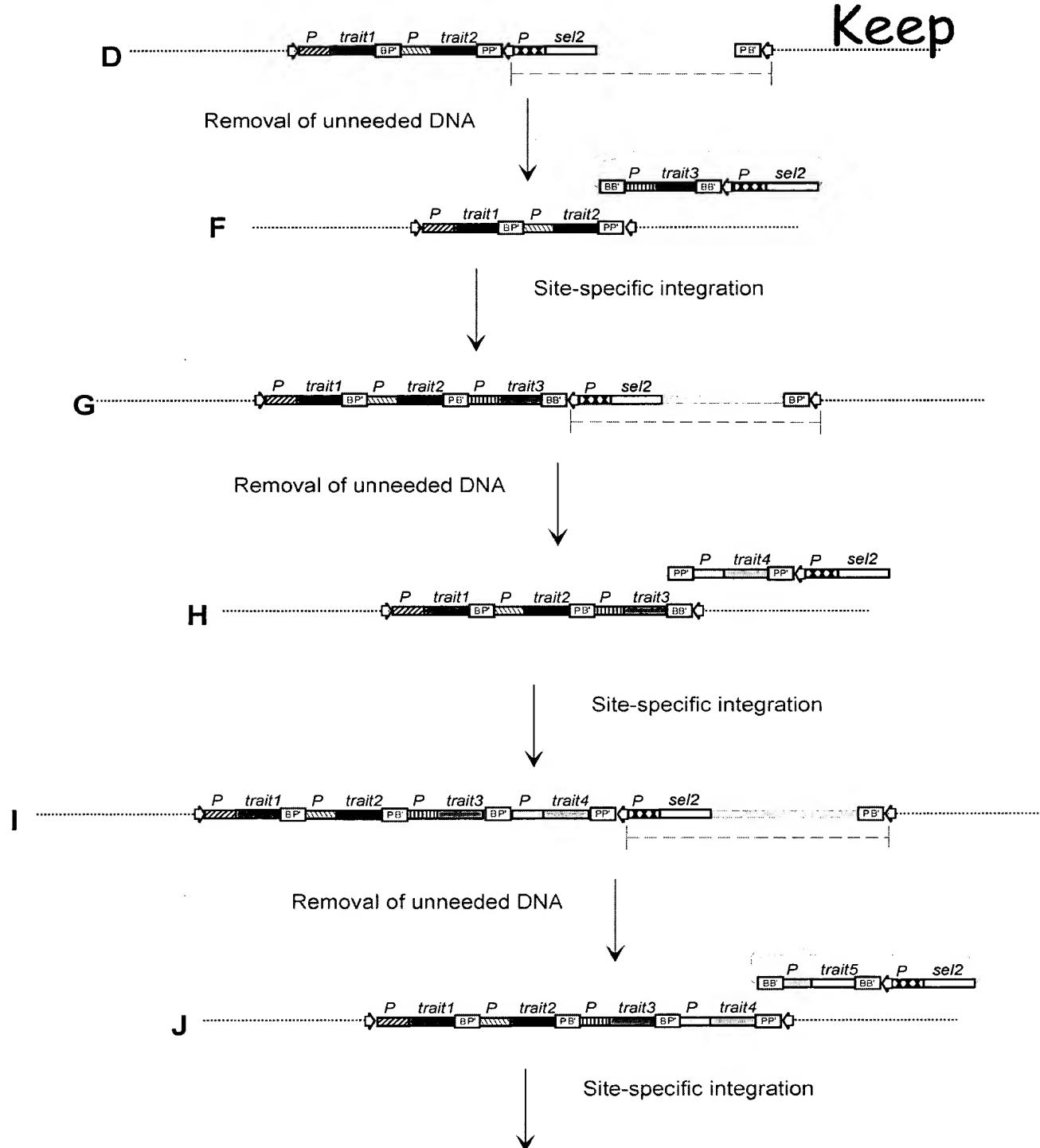
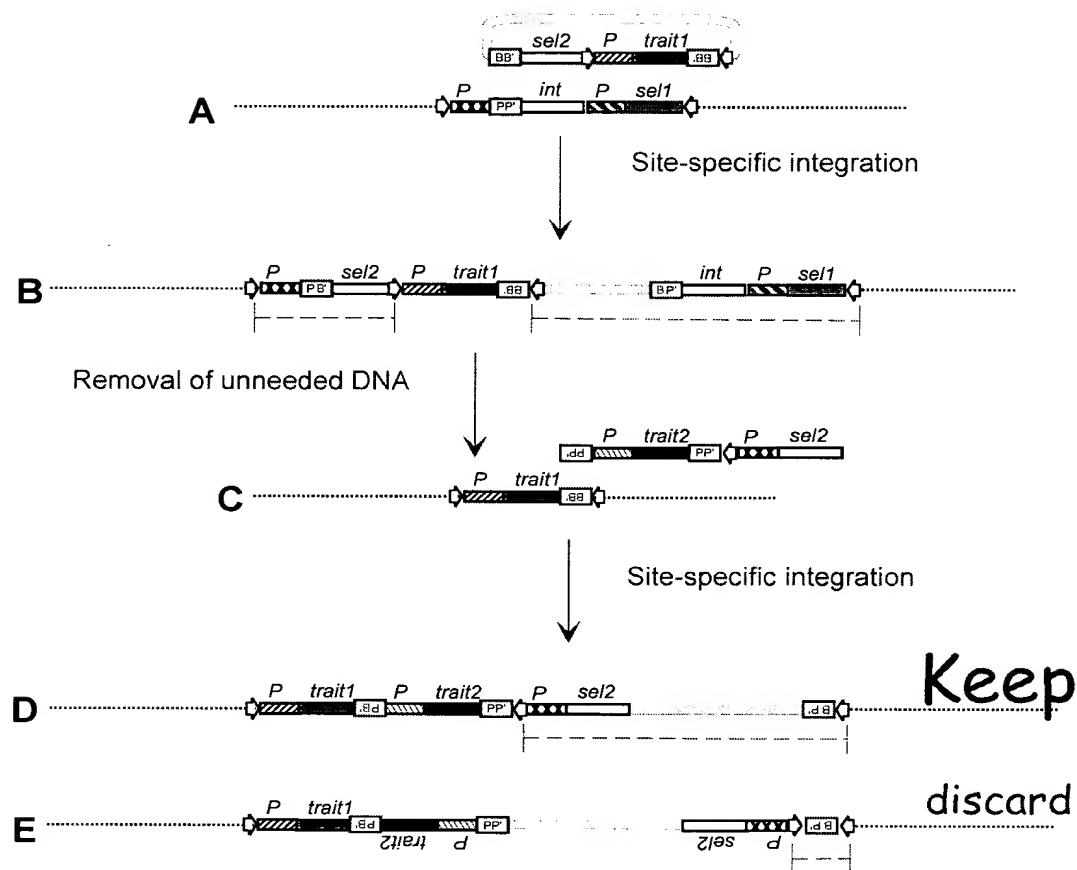


Figure 9, part I

General strategy to stack genes, part1

Use of inverted sites



	= attP
	= attB
	= attR
	= attL
	= lox

General strategy to stack genes, part 2

Figure 9, part II

Use of inverted sites

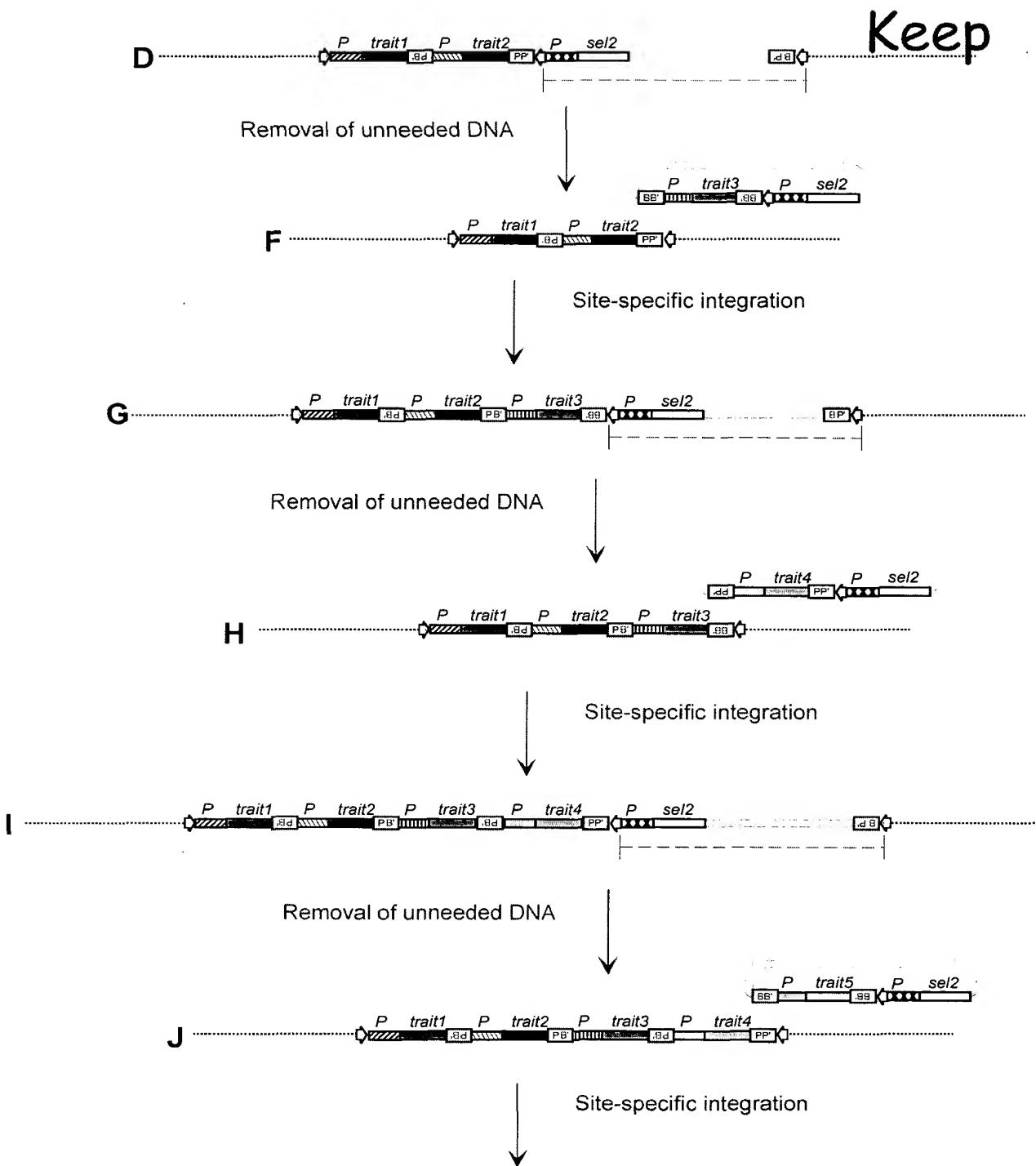


Figure 10

Gene replacement in the host genome with directly oriented dual sites

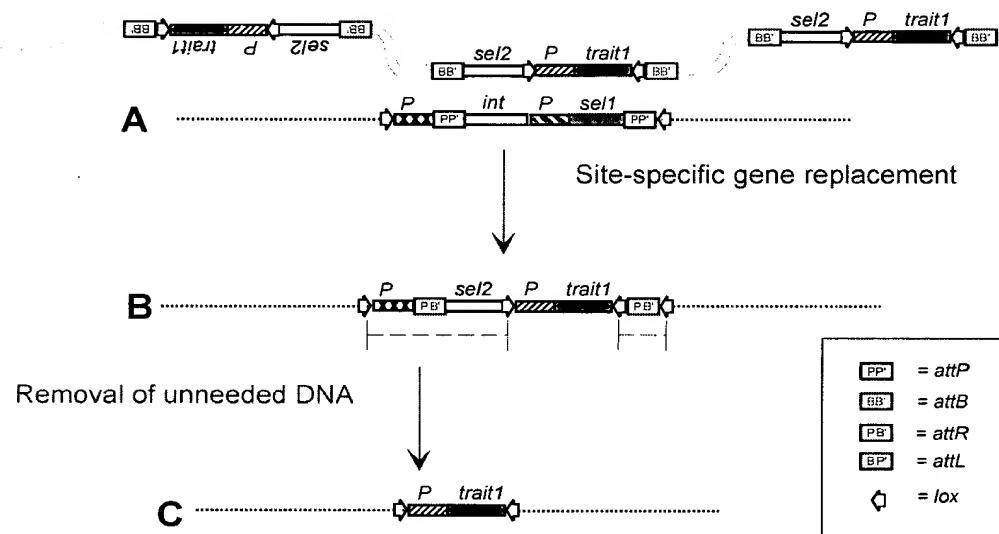


Figure 11

Gene replacement in the host genome with inverted dual sites

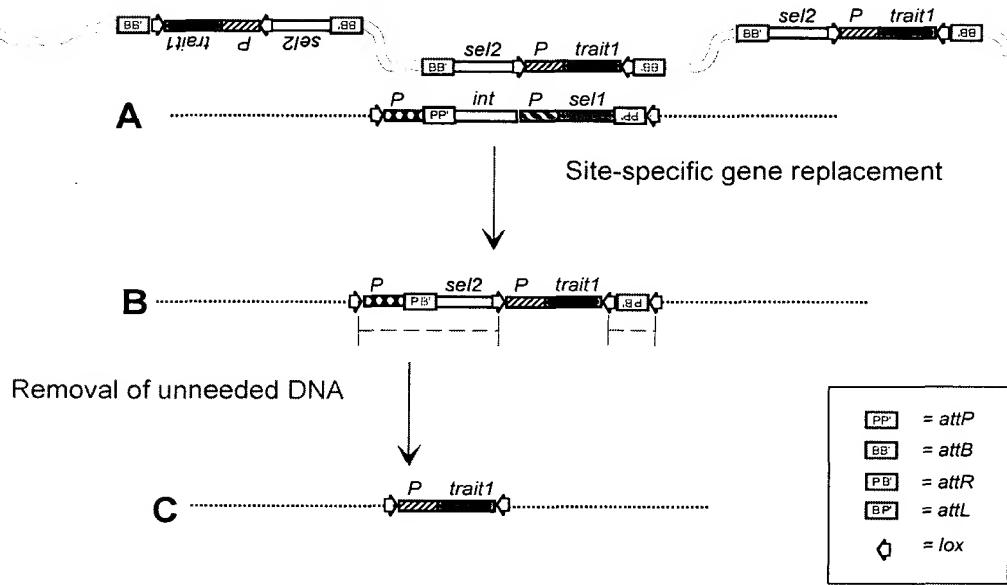


Figure 12

Transgene translocation from one chromosome to another

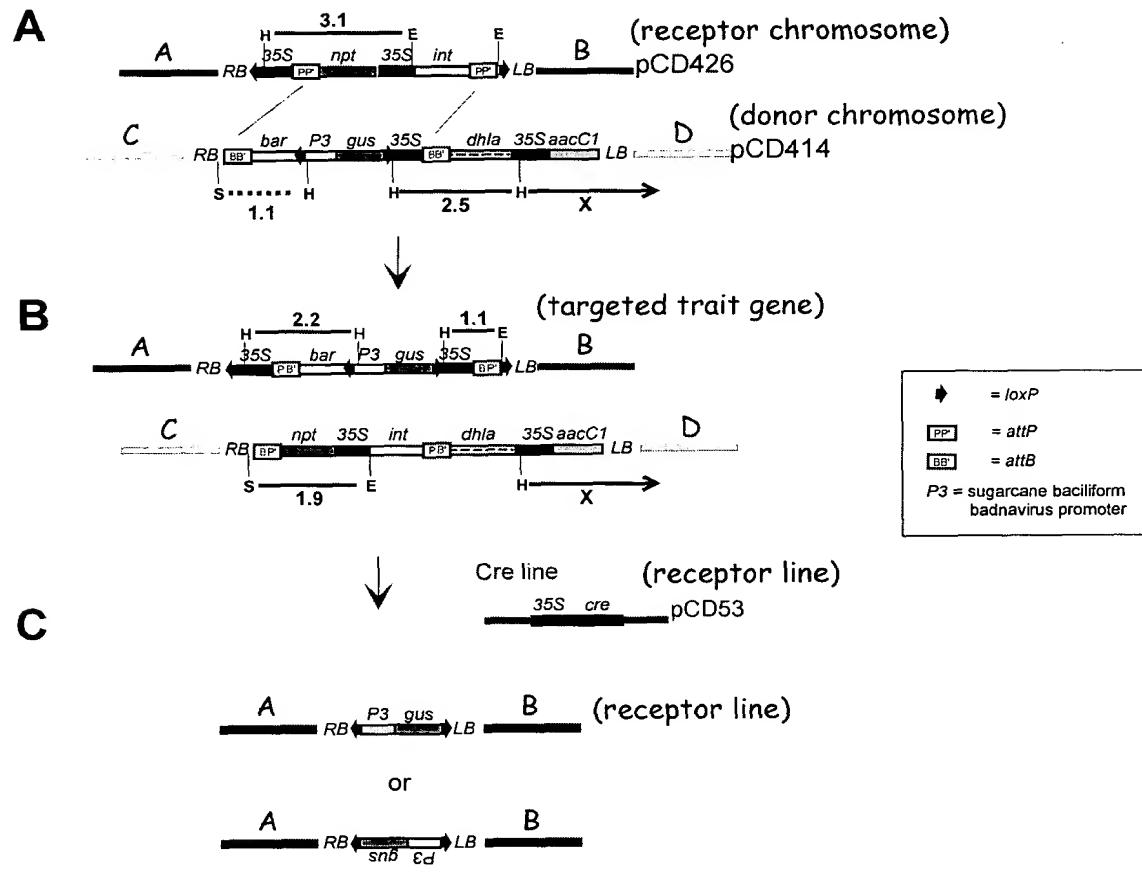
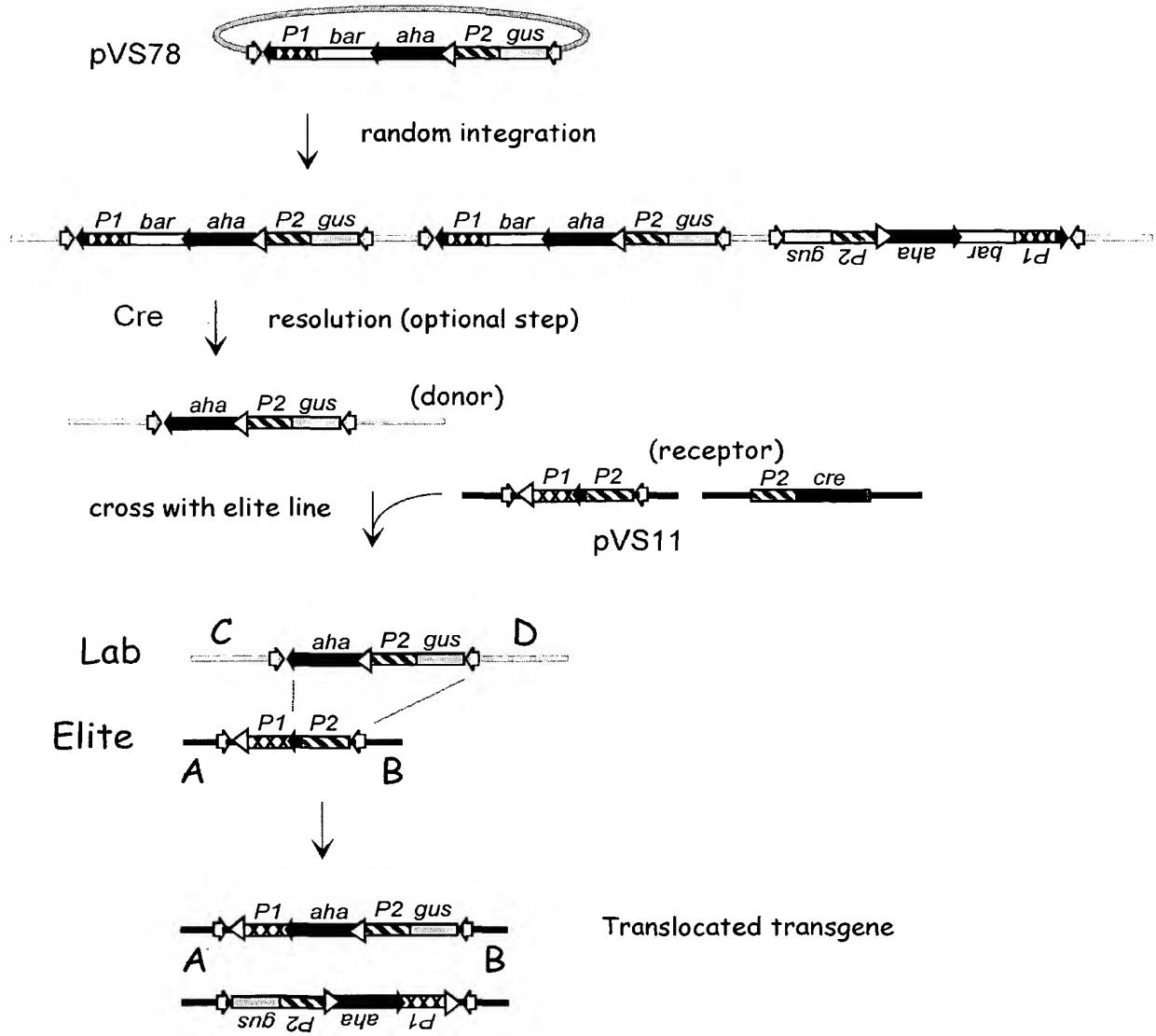


Figure 13

Transgene translocation using reversible recombination systems



$\blacktriangleleft$  = *FRT*  
 $\blacktriangleleft$  = *loxP*       $\blacktriangleleft$  = *lox511*